Quiz 3 – Math 224

Print Name:

1) Find $\frac{dy}{dx}$ at the point (0,1) for the equation $\sin(xy^2) = 2x - 2y$.

- 2) The position of a particle is given by $s(t) = t^3 6t^2 + 9t$ where t is measured in seconds and s in meters.
- (a) Find the velocity and acceleration at time t.
- (b) When is the particle at rest?
- (c) When is the particle moving forward in the positive direction?
- (d) When is the particle speeding up?